



AMMONIUM SULPHATE

MATERIAL SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Substance

Chemical Name Ammonium sulphate
Commercial Names and Synonyms Sulfuric acid ammonium salt
Chemical Abstract Nomenclature

Uses Yeast nutrient

Company Tel. +39-0321-790-300 (please see bottom of the page)

Emergency service Niguarda Hospital tel. +39-02-6610-1029

2 - COMPOSITION / INFORMATION ON INGREDIENTS

- **General description of the components, relative concentrations and risks**

Chemical name	N° CAS	N°EINECS	Conc/Range %	Classification	
				Symbols	R phrases
Ammonium sulphate	7783-20-2	231-984-1			

Formula (NH₄)₂SO₄

The product does not contain any other products and/or impurities that influence the product classification.

3 - HAZARDS IDENTIFICATION

Not dangerous classified substance according to official current regulations.

Health risks Slightly irritant to eyes

Environmental risks Do not disperse the product in the environment

Physical and chemical hazards
Fire and explosion

4 - FIRST AID MEASURES

Inhalation Move immediately to open air

Skin contact Wash with water and neutral soap

Eyes contact Wash immediately and abundantly with running water. Seek medical advice if necessary

Ingestion Let drink much water in order to obtain dilution. Seek medical advice

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5 – FIRE-FIGHTING MEASURES

Advised extinguishing agents	Nebulized water, foam, chemical powder and CO ₂
Extinguishing agents to be avoided	None
Dangers caused by combustion matters	NO _x , SO ₂
Protection measures in case of intervention	Breathing apparatus
Additional information	Uninflammable

6 – ACCIDENTAL RELEASES MEASURES

Collection and disposal methods	Collect leakages with shovel and broom and do not raise dust
Personal-related safety precautions	
Environmental protection	Prevent the introduction of the product within the sewage system or canals

7 – HANDLING AND STORAGE

Handling	Prevent contact with eyes, skin and mucosae. Prevent dust inhalation and contact with heat sources or free flames in order to prevent the decomposition of the product
Storage	Store in a dry, cool and well-ventilated place. Keep away from alkalis, alkalizing substances and nitrites

8 – PERSONAL PROTECTION / EXPOSURE CONTROL

Respiratory protection	Anti-dust mask if necessary
Skin protection	Appropriate personal protection equipment
Hand protection	Safety gloves
Eyes protection	Safety goggles
Exposure limits	TLV-TWA: unknown, 10 mg/m ³ (irritant dusts)

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9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	physical state	Solid
	colour	White
	smell	Odourless
Melting point		350 °C, at 250 °C starts decomposition
Boiling point		
Density		1.77 g/cm ³
Solubility in water		767 g/L at 25 °C
Flash point		
Inflammability limits (vol % in air)		
Autoignition temperature		
pH (0.1 M)		5.5
Coefficient of division n-octanol/water		

10 – STABILITY AND REACTIVITY

Conditions to be avoided	Stable product in standard conditions
Products to be avoided	Possible explosion with potassium chlorate, potassium nitrate and potassium nitrite
Hazardous decomposition products	At T >235 °C with development of NH ₃

11 – TOXICOLOGICAL INFORMATION

Penetration ways	Inhalation yes Ingestion yes Contact yes
Acute toxicity	LD50 (oral, rat): = 3000 mg/kg
Inhalation consequences	
Ingestion consequences	
Skin local effects	Slightly irritant
Eyes local effects	Slightly irritant
Additional information	

12 – ECOLOGICAL INFORMATION

Water toxicity/ecotoxicity.

LC50 (Daphnia magna)= 433 mg/L (50h)
LD50 (Leuciscus idus) = >460 < 1000 mg/L (96h)

13 – DISPOSAL CONSIDERATIONS

Product	Operate according to local and national current regulations (ref.: D.P.R. 915/82 and later modifications). Send to an authorized disposal plant
Contaminated packages	Empty the package, unfold it completely - Dispose of it depending on the material

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14 – TRANSPORT INFORMATION

Product non subject to ADR/RID, IMO and IATA regulations, related to road, sea and airway transport of dangerous goods.

15 – REGULATORY INFORMATION

EC labelling	[]	Required by the law
	[]	Temporary
# Classification	[X]	Not required

16 – OTHER INFORMATION

Hazard symbol

Risk phrases

Safety phrases

This material safety data sheet has been issued in accordance with 2001/58/CE.

Before starting the use of this product for any new process or experiment, it must be carried out a deep study on the safety and the compatibility of the product itself with materials it could come in contact with.

The information contained in this safety data sheet is given to protect health and safety at work. No responsibility is taken for possible damages arising from uses of this information for different purposes from the ones here indicated.

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